

# MODIS Surface Reflectance Aggregation Collection 4 readiness

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# Outline

- ✍ **What has changed for C4 and what are the benefits?**
- ✍ **What are the remaining known issues?**
- ✍ **What changes are expected in the future and in what time-frame (during C4 or for C5)? This should just be a heads up since other changes are likely.**

## What has changed for C4 and what are the benefits?

- ✍ **There are many minor changes, but the most important changes for collection 4 are:**
  - **The adoption of a weighted average scheme for input/output quality data. We use to assign the best quality from the finer resolution**
  - **Handling of both Isinus and Sinus projection**
  - **More effective data quality filtering**
  - **Added exception to handle faulty input data, which use to cause failure**

# What are the remaining known issues?

- ✍ Shadow filtering needs to be reevaluated
- ✍ Aerosol filtering needs to be reevaluated
- ✍ Due to changes in L2 level, specially the cirrus bit change, the AGG Algorithm will need adjustments
- ✍ Output quality information needs adjustment
- ✍ Reduced volume output was designed but failed during some testing and will need fixing

What changes are expected in the future and in what time-frame (during C4 or for C5)? This should just be a heads up since other changes are likely.

#### **Collection4:**

- Adjust algorithm for cirrus bit change
- Adjust output quality bits to reflect changes in the L2 input

#### **Collection 5**

- Finalize the reduced volume version
- Improve the input/output quality processing